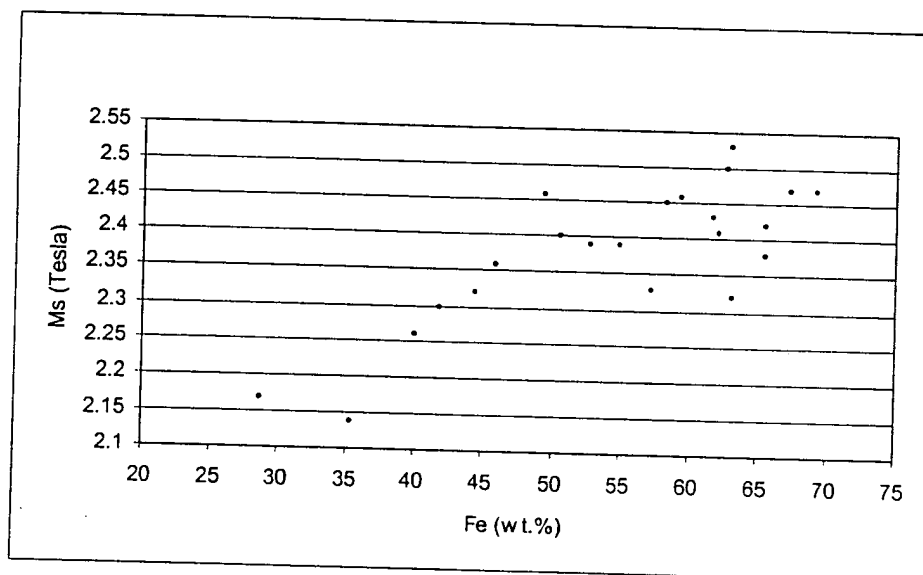
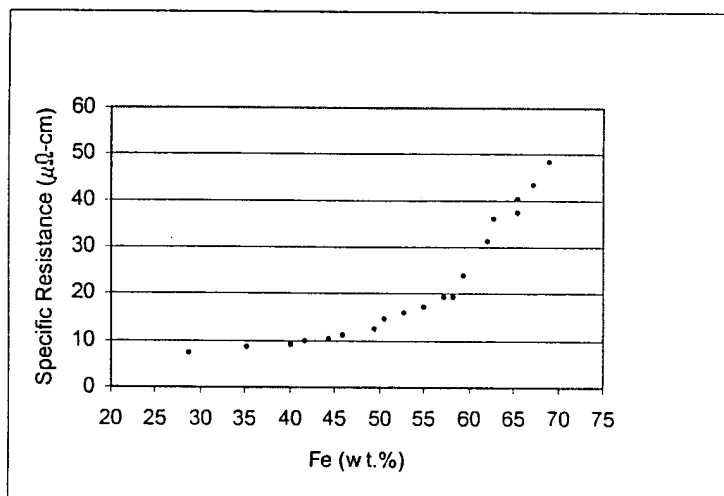


**FIGURE 1**



**FIGURE 2**

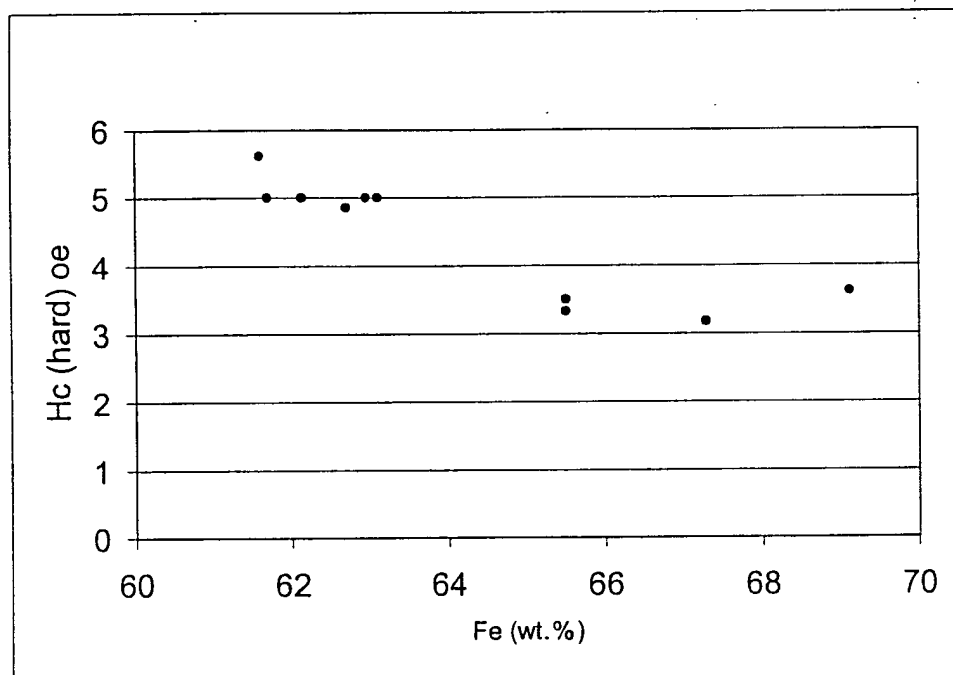


**FIGURE 3**

A scatter plot showing the relationship between Stress (MPa) on the y-axis and Fe (wt.%) on the x-axis. The y-axis ranges from 0 to 800 MPa in increments of 100. The x-axis ranges from 20 to 70 wt.% Fe in increments of 10. There are 15 data points plotted, showing a general upward trend in stress as the Fe content increases, with some fluctuations. A significant peak in stress is observed at approximately 63 wt.% Fe.

Fe (wt.%)	Stress (MPa)
35	120
40	200
42	120
45	180
47	270
49	360
50	180
53	270
55	350
57	450
58	210
60	430
63	550
64	530
66	420
66	480
68	650

### FIGURE 4



**FIGURE 5**

A scatter plot showing the relationship between Vickers hardness (Hk) and iron content (Fe wt.%) for Fe-Ni alloys. The y-axis is labeled 'Hk (hard) oe' and ranges from 0 to 25 with major ticks every 5 units. The x-axis is labeled 'Fe (wt.%)' and ranges from 60 to 70 with major ticks every 2 units. There are seven data points plotted as solid black circles. The data points are approximately at (61.5, 21.5), (62.0, 18.5), (62.5, 19.5), (65.5, 15.5), (67.5, 13.5), (69.0, 14.0), and (69.5, 15.0). The hardness values are relatively high for low Fe content and decrease as Fe content increases, with some fluctuations at higher Fe concentrations.

Fe (wt.%)	Hk (hard) oe
61.5	21.5
62.0	18.5
62.5	19.5
65.5	15.5
67.5	13.5
69.0	14.0
69.5	15.0

### FIGURE 6